

# **RemediAir**<sup>TM</sup>

ACTIVE AIR REMEDIATION

## Hygienic **Air** for **FoodService**

Remedi**Air** is the revolutionary air & surface hygiene remediation system, proven to eliminate airborne bacteria that shortens the life of perishable food. The reduction of bacteria by RemediAir can increase the satisfactory use of fresh produce & other perishables by up to 58% (approximately 7.5 days). In some cases, as much as 150% longer. RemediAir actively eradicates bacteria, viruses, mold and fungi in the air & on surfaces throughout a facility, **24/7**.



## Scientifically **ENGINEERED TO DELAY** THE **DECAY** OF **PERISHABLE FOOD**

### REMOVES **ODORS**, MINIMIZES **INFECTION** & IMPROVES **HYGIENE**

- Reduces viral particle concentration
- Destroys airborne bacteria
- Minimizes load of surface bacteria
- Eliminates odors at the source
- Helps maintain sanitized surfaces
- Stops mold & fungi growth
- Breaks down airborne **VOC**'s
- **24/7** workplace hygiene protection

### **PERFECT FOR USE IN:**

#### **COMMERCIAL FOOD SERVICE**

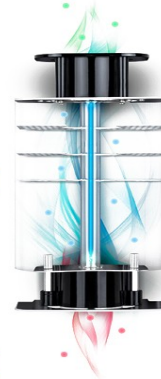
- ⇒ **Walk-ins & Cold Storage**
- ⇒ Kitchens & Prep Areas
- ⇒ Dining Rooms & Bar Areas
- ⇒ Restrooms & Lounges
- ⇒ Banquet Rooms & Facilities
- ⇒ Reception & Waiting Areas
- ⇒ Buffet Areas & Cafeteria
- ⇒ Music Venues & Event Areas
- ⇒ Trash Areas & Loading Docks

## HOW RemediAir TECHNOLOGY WORKS

A combination of technologies working together

### Internal Technology:

- Germicidal Irradiation - UV light
- PCO – Photocatalytic Oxidation
- Dual Waveband UV



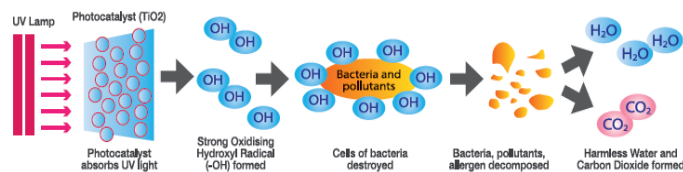
### Internal Details:

- Germicidal Irradiation by dual UV light (Ultraviolet) kills microorganisms (bacteria, viruses and mould) by disrupting their DNA and removing their reproductive capabilities.
- PCO – Photocatalytic Oxidation, UV reacts with our Catalyst (TiO<sub>2</sub>) to form highly reactive but short-lived oxidizing Hydroxyl Radicals (OH) which break down Volatile Organic Compounds (VOCs).

Interaction of the dual UV wavebands with the TiO<sub>2</sub> heterogeneous catalyst both creates and breaks down Oxygen molecules transforming Oxygen into a highly reactive state of Ozone and Superoxide Ions which leave the unit (external) as “Plasma Quatro”.

### Transmitted Technology (External):

- Superoxide Ion Generation
- Triatomic Oxygen Sterilization



### External Details:

- The negatively charged Superoxide Ions charge airborne contaminants causing them to cluster together and fall from the air as they become too heavy, aiding all other processes. This can remove airborne particulates down to 0.0001 microns, that's better than any HEPA filter.
- Triatomic Oxygen (O<sub>3</sub>) is produced via the dual UV lamp and gets too hard to reach areas breaking down contamination in the air and on exposed surfaces. Targeted O<sub>3</sub> damages the cell wall of microorganisms, stopping the reproductive process which effectively eliminates cell growth and capacity to multiply.